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Cont'd

from an animal that does not have Lafora's disease or an animal that is a carrier of LaFora's disease.

B16

15. (Twice Amended) A method according to claim 7, comprising detecting a deletion of about 25 kb or 75 kb in the sequence of EPM2A shown in SEQ.ID.NO.:1 or Figure 4A, and further comprising:

(a) amplifying the nucleic acid sequences in the sample with primers JRGXBF (5'-TCCATTGTGCTAATGCTATCTC-3') (SEQ ID NO: 9) and JRGXBR (5'-TCAGCTTGCTTTGAGGATATTT-3') (SEQ ID NO: 10) in a polymerase chain reaction; and

(b) detecting amplified sequence wherein the absence of an amplified sequence indicates that the sample is from an animal with Lafora's disease.

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